RCMP *

The National DNA Data Bank of Canada



Royal Canadian Gendarmerie royale Mounted Police du Canada

Canadä[†]

ANY QUERIES REGARDING THE CONTENT OF THIS REPORT, OR REQUESTS FOR ADDITIONAL COPIES, SHOULD BE ADDRESSED TO:

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Forensic Science and Identification Services, Royal Canadian Mounted Police

NATIONAL DNA DATA BANK OF CANADA

O HER MAJESTY THE QUEEN IN RIGHT OF CANADA, 2009 ISBN 978-8-662-86892-1 CAT. NO. PS61-4/2009

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Table of Contents

Message from the Commissioner, Royal Canadian Mounted Police	02
Message from the Assistant Commissioner, Forensic Science & Identification Services	03
The National DNA Data Bank — Past, Present and Future	04
Harnessing the Power of DNA Analysis	10
History of DNA Legislation in Canada	12
The National DNA Data Bank	14
The Working Science	16
Process for Reporting a Match	19
Process for Confirming a Match	19
National DNA Data Bank Advisory Committee	20
Key Statistics	22
Financial Statement	27
A Day in the Life of	28
André Savoie, Collections and Training Manager	29
Hétène Lacombe, DNA Sample Verification Technician	30
Anne Hale, DNA Analyst	31
Pierre Gagnon, Quality Manager	32
Sylvain Lalende, National CODIS Manager	33
Success Stories	34
DNA Sends Killer to Jail for Life	35
Blood Left at Crime Scene Puts Church Robber behind Bars	36
Fingernall Scraping Helps Nail Down Jogger's Attacker	37
Stored DNA Nets Rapist a 13-Year Sentence	38
ONA Hit Nabs Home Invasion Suspect	35
DNA Solves Four-Year-Old Jewelry Store Heist	40
Appendix A — Definitions of Designated Offences	41

Message from the Commissioner, Royal Canadian Mounted Police

It is my privilege to introduce the National DNA Data Bank's ninth annual report. This has been an important year for the National DNA Data Bank as we have seen how effective recent legislative amendments have been at enhancing its role in supporting police investigations across the country.

Following the enactment of Bills C-13 and C-18 on January 1, 2008, Canadian courts were permitted to include more offences for which DNA profiles can be added to the National DNA Data Bank's Convicted Offenders Index (COI). In addition, foreign laboratories could upload more crime scene profiles to the Crime Scene Index (CSI). The amendments have had an immediate and positive impact on work within the National DNA Data Bank, increasing the number of possible matches between CSI and COI profiles and CSI to other CSI profiles.

Since the program's inception in hone 2000, more than 158,000 DNA samples from convicted offenders have been processed and added to the National DNA Data Bank, along with DNA profiles received from thousands of crime scenes across the country. Law enforcement agencies rely on the careful handling of this data by the National DNA Data Bank to aid in the successful resolution of investigations.

While the National DNA Data Bank has already undergone significant changes over the past year, the program will continue to evolve. With Parliamentary reviews currently underway, we are eagerly awaiting feedback from key stakeholders and welcome any recommendations that will enhance the effectiveness and efficiency of the program.

In today's society, where crime knows no borders, Canada's National DNA Data Bank welcomes the opportunity to assist with cross-jurisdictional investigations. INTERPOL plays a central part in dialogue between DNA data banks around the world. Canada is committed to participating in that ongoing discussion.

At the same time, the National DNA Data Bank is governed by privacy laws that are strictly enforced throughout the DNA-gathering process. Protecting privacy rights of individuals will continue to be a priority at every level.

The RCMP is a proud advocate of the National DNA Data Bank, which is a key program under the Force's Policing Support Services. We look forward to its continued success and its ongoing evolution on the policing landscape in Canada and abroad.



WILLIAM J.S. ELLIOTT

Message from the Assistant Commissioner, Forensic Science & Identification Services

I am pleased to have this opportunity to highlight the achievements of the National DNA Data Bank in this ninth annual report.

Over the past year, the National DNA Data Bank reached an important milestone as it surpassed 10,000 DNA matches between offenders and crime scene DNA profiles on August 29, 2008. Additionally, the number of matches over the past three years alone is more than double the number obtained during the first six years of the National DNA Data Bank's existence. This marked increase clearly demonstrates that the National DNA Data Bank is a valuable tool to law enforcement agencies by linking offenders to crime scenes. It is an increasingly vital resource in the pursuit of justice, helping to solve cross-jurisdictional crimes and resolving decades old-offences.

The increase in the number of DNA matches can, in no small measure, be attributed to the amendments to the Criminal Code, the DNA Identification Act and the National Defence Act which came into effect January 1, 2008. These amendments resulted in an increase in the number of offences for which DNA samples can be collected and added to the National DNA Data Bank. They were also a key contributing factor to a 70% increase in the number of convicted offender samples received by the National DNA Data Bank.

We are proud of the National DNA Data Bank's success, however, we recognize that this success depends very much on the collaboration of our law enforcement partners and the Ontario. Quebec, and RCMP forensic laboratories. The concerted efforts of all partners working together have assisted in making the National DNA Data Bank the important tool it is today.

I would also like to take this opportunity to recognize the valuable work of the National DNA Data Bank Advisory Committee and its contribution to the National DNA Data Bank. The Committee, which operates at arm's length from the RCMP_t plays a pivotal role by providing advice essential to the effective management of the National DNA Data Bank.

The National DNA Data Bank has evolved over the course of nine years and will continue to do so with the advent of new technologies. We will continue to adapt to the changing legislative environment and remain committed to respecting the rights and privacy of Canadians.



PITER HENSCHEL ASSISTANT COMMISSIONER

The National DNA Data Bank Past, Present and Future

NATIONAL DNA DATA BANK

Few scientific discoveries have had a greater impact on the field of forensic science than the introduction of forensic DNA analysis. As forensic DNA analysis became more accepted by police and the courts, it became evident that central coordination at the national level was needed. Development of a new tool that would allow the data banking of DNA profiles from crime scenes and convicted offenders, similar to what was already being done with fingerprints, should be pursued. In 1996, a consultation process regarding the establishment of a national DNA data bank began throughout Canada and culminated with the opening of the National DNA Data Bank (NDDB) on June 30, 2000.

The NDDW is composed of two indices of DNA information; the Convicted Offenders Index (COI) and the Crime Scene Index (CSI). The COI is made up of DNA profiles obtained from biological samples from convicted offenders, as ordered by judges under the specifications of the DNA Identification Act in compliance with the Criminal Code of Canada and the National Defence Act. The Criminal Code identifies a list of designated offences for which biological samples can be obtained from convicted offenders. These offences are separated into primary offences (mainly crimes against property).

The Crime Scene Index is composed of DNA profiles obtained from unsolved crimes from the same designated offence categories as the COL These profiles are derived by three Canadian forense laboratory systems: the Centre of Forense Sciences (CFS) in Toronto and Sauli Ste. Marie, serving the province of Ontario; the Laboratorie de sciences judiciaires et de medecine légale in Montréal, serving the province of Québec; and the Royal Canadian Mounted Police (RCMP) Votensie Science and Identification Services (FS&15) serving the rest of Canada.

IMPACT OF BILLS C-13 AND C-18 ON THE NDDB

On January 1, 2008, Bill C-13 An Act to Amend the Criminal Code, the DNA Identification Act and the National Defence Act (S.C. 2005, p. 25), and Bill C-18, An Act to Amend Certain Acts in Relation to DNA Identification (S.C. 2007, p. 22), were fully proclaimed to improve and expand the DNA Identification Act and the DNA provisions of the Criminal Code and the National Defence Act. These Bills increased the number of designated offences that can lead to a DNA Data Bank order for inclusion in the COI of the NDDB. Partial proclamation of Bill C-13 in 2005 had enhanced the retroactive scheme which deals with DNA authorizations made against offenders convicted of certain offences prior to the creation of the NDDB in June 2000.

Following the legislative changes in 2008, there are now more than 265 qualifying offences: 62 primary and over 200 secondary. Before 2008, there were only 59 qualifying offences: 38 primary and 21 secondary offences.

The list of primary designated offences has been expanded to include the sexual exploitation of a person with a disability, extortion and intimidation of a justice system participant or journalist, among others. Several other erimes, such as break and enter in a dwelling house, robbery and various offences related to child pornography have been moved from the secondary to the primary list of designated offences. Courts have no discretion and must make a DNA Data Bank order for the 16 primary offences which are doemed to be the most serious. These offences include murder, sexual assault with a weapon, hidinapping and robbery.

The list of secondary offences was also greatly expanded as a result of the 2008 legislative amendments. The list includes Ceiminal Code offences as well as Controlled Drugs and Substances Act offences for trafficking, importing, exporting and production of a substance, where the offence has a maximum purodiment of five years or more and is prosecuted by indictment. Criminal harassment, uttering threats, and their over \$5,000 are among these new secondary offences. For secondary offences, the court may, on application by the prosecutor, make an order for the offender to provide a biological sample if it is satisfied that it is in the best interests of the administration of justice to do so.

ENDORSEMENT PROCESS

With the implementation of Bill C-18, police officers are now required to verify with the Canadian Police Information Centre (CPIC) and determine if a convicted offender's DNA profile already exists in the SEDDB prior to executing an order or authorization. If the DNA profile of an offender is contained in the COI of the NDDB, police officers shall not take any budily substances from the offender but are required to follow endorsement instructions and submit a new DNA endorsement form along with the offender's fingerpriors in the NDDB. In 2008-2009 more than 7,200 endorsements were submitted to the NDDB. The purpose of the endorsement process is to ensure that an offender's DNA profile remains in the NDDB should the conviction for the initial offence for which the DNA sample was ordered, is overturned on appeal.

DNA PROFILE REMOVAL AND BIOLOGICAL SAMPLE DESTRUCTION

his accordance with the DNA profile removal and biological sample destruction requirements of the DNA Identification sless, policies have been implemented to ensure that a DNA profile and biological sample are only stored for the applicable period that is related to an offender's conviction. Every week, members of the Canadian Criminal Real Time Identification Services (CCRTIS) advise the NDDR to remove DNA profiles from the COI lim which the tenention period has expired or for orders of convictions that have been quashed on appeal. Each week, herewere 10 and 20 DNA profiles are removed from the Convicted offenders Index of the NDDB and the associated stored brofily substances destroyed. There is a pre-determined retention period for young offenders and for offunders who receive an absolute or conditional discharge.

The NDDB protects the genetic privacy of the convicted offenders by separating the offender's identity and criminal record from the genetic information kept by the NDDB. The DNA Identification Act also requires that the biological samples collected from convicted offenders and the resulting DNA profiles be used for the purposes specifically prescribed in the Act.

THE NATIONAL DNA DATA BANK AT WORK

The full proclamation of Bills C-13 and C-18 has led to a dramatic increase in the number of convicted offender samples received by the NDDB. During the previous six fiscal years, the NDDB received on average, 19.050 convicted offender samples annually. During the 2008-2009 fiscal year, with the full proclamation of Bills C-13 and C-18, the NDDB received more than 34,000 samples.

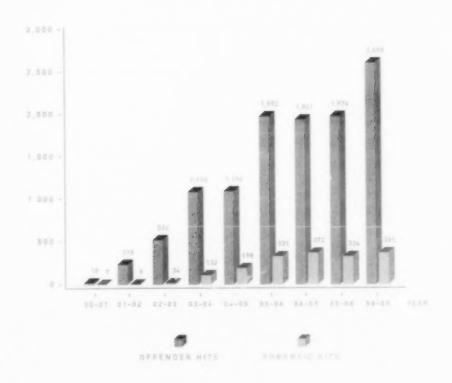
As the number of DNA profiles contained in the NDDB has increased over the past nine years, so has the number of cases assisted by linking crime scene DNA profiles to convicted offenders. The cases assisted range from break and enter to some very complex, high profile murder and sexual assault cold cases.

A cold one more than more mary old was solved using horroric DNA technology to 2001. It transled the make and actual arounds of a fet our old woman whose body was discovered in her apartment to 2011 his the surrauning time years. Part Regional Police Homicide Investigators interviewed thomsands of coopers. Homelands of blood actories were constant and mote than 120 DNA gradies from suspects were compared to the crime seem evidence by the Centre of Forensic Sciences in Tomana without a march. On November 28, 2000 also crime seem DNA profile was added to the Crime Seem Index of the NDDB has a won not until the DNA position to conversed offenders by the NDDB has a won not until the DNA position that a conversed offender was added to the Conversed Offenders Index on May 1, 2001, that a match was made the suspect was also affected and found guilty of first degree mander on June 3, 2004. The investigators had provided by the NDDB demonstrates that the pursuit of justice has no boundaries, even over time.

INTERESTING PACTS

As of March 11, 2009, there were 158,493-12NA profiles from convicted offenders in the Crit and 18-25n profiles from crime were evidence in the CSL Comparison of these DNA profiles has hed to 11,500 minutes between offender and attine were samples tretered to as Offender Hiro and another L788 minutes between extinu were temples tretered to as Forence Hiro. He must profife offender was assumented to 47 error DNA profiles while the oldest case in the CSI dates back to 1904. The oldest case assumed by an CHERDER Hiro was brinked to a 1981 marcher from Alberta. The first Eurense 110 occurred on November 10, 2000 while the first CHERDER HIR occurred on November 10, 2000 while the first CHERDER HIR occurred on December 1, 2000.

DEFENDER AND FORENSIC HITS



LE FORTERO DE ROMANDO PRODUCTION DE LA FRANCIA DE LA FRANC

Since full proclamatum of 54lb C-13 and C-18, consisted offender samples collected for new secondary designated offences have provided leads to the topological of more serious offences.

For example:

- 1.804 samples collected following a conviction for a Cour-dled Dong and Substance det offeres provided tourtains; with the recessingation of 10 mandets, four attempted murders, as accust assaults, there assaults with weapon, over aggregated assaults and 11 mbberies;
- Look samples collected following a consistion for "Escape and Being at Lorge without Escape provided accurance with the increasignment of four murders one attempted murder, fire sexual attention and seven robbertee.
- Att2 samples collected following a conversion for "Uttering Threats" provided assistance with the trees
 region of four murders, four sexual assisting one aggressized assists, one introduction of a jurisic system
 participant or journalist and three robberies; and
- 814 samples collected following a conviction for "Criminal Hazasonicm" provided anticince with our number and four sexual assault investigations.

INTERNATIONAL PARTICIPATION

The DSA bleatification der permits the NDDB to exchange DNA information for the purpose of criminal investigations with any country that complies with an International Agreement with Canada. In May 2002, such an agreement was signed between INTERPOL and Canada giving the NDDB access to the 18° countries purposed by a INTERPOL.

Wittin the first few weeks of the agreement being signed, a request was ascerted from the New York Cart Chief Medical Examiner's Office to compare a DNA profile from a series of sexual ascends in New York to the profiles contained in the NDDB indices, the wavely provided a match between the New York cases and an ansaltral accord assault case in the province of Quelley.

As of March 31, 2009, the NDDB has received 481 international requests to wands its indices (COI and CSD) which resulted in one Offender Ha and one Forence His. Most of these request conginated from Canada's southern neighbour the United States, followed by the United Kingdom: France, Portugal and Switzerland. The NDDB has sent out 100 international search requests which resulted in one Offender Hit and one Posterio His.

It is reportant to note that the NDDB does not send biological prograd as DNA from a row warm complex or from complexed offenders to any country at part of the recommend DNA during agreement with DNA EEPLB. These comparisons only involve anonymous DNA profiles from come scenes and the request must be made by a Canadian Law sufercommunication, engaged in a committal investigation.

THEFTSERI

The result of the NIDDR is very promitting. With the success of the NDDR, in management symmetric and objects of the NDDR, in management symmetric means of the expects to provide rounds and spatial services. To make the fulfill its manufactors support to enclose the second and enhance patient substitute of the NDDR man community to evaluate new technologies and so further improve as operations. Furnational design of angles must be balanced by practical considerance on this bounds over current personal enemies the expect on information during, and whether comparisons with a sample DNA profiles within as understook provides.

ANNUAL REPORT 1008-2009

10

Harnessing the Power of DNA Analysis

DNA analysis was first used by the RCMP in 1989 in an investigation in which a suspect denied any involvement in a sexual assault, but the victim identified him as the attacker. DNA analysis later confirmed the victim's version of events. After the DNA test results were presented in court, the suspect reversed his plea to guilty.

At this early stage, there was no central coordination at the national level that could help police take full advantage of the unfolding advances in DNA technology. In 1995, the Canadian Criminal Code was amended to add DNA warrant provisions. Under these provisions, a provincial court judge could authorize the collection of a DNA sample from a suspect for the purpose of forensic DNA analysis in the course of the police investigation of a designated Criminal Code otheres.

In order for this new roof to be used to its full potential, there was a need to coordinate DNA profiling data from investigations across the country. With support from all levels of government, the general public and police agencies throughout Canada, decisive steps were taken to create the National DNA Data Bank.

In 1996, the Department of the Solicitor General (as it was then known) and the Department of Justice undertook Canada-wide consultations regarding the establishment of a national DNA data bank.

The following groups participated in the consultations:

- Provinces and territories
- Police associations
- · Privacy officials
- · Bar associations
- Victim advocate
- Women's groups
- · Consessional officials
- Medical and scientific organizations

Confirming the Government of Canada's commitment to combat crime and especially violent crime. Bill C-3, the DNA Identification Act (S.C. 1998 a 47) received Royal Assent on December 10, 1998 and was proclaimed on June 30, 2000.

That same year, Parliament entered [60] S. (0. An Act to Amend the National Defence Act, the DNA Identification Act and the Centural Code (S.C. 2000, 1.10). The RCMP then built the NDDB after Bill C-3 received Royal Assent. The project was completed on time and under budger and the National DNA Data Bank became operational on June 10, 2000.

	1989		First RCMP DNA case.	
	1995	JÚĽ4	Bill C-104 receives Royal Assent. The bill amends the <i>Criminal Code</i> and the <i>Young Offenders Act</i> to enable judges to issue a warrant allowing police to obtain DNA evidence from suspects in criminal investigations. This is Phase I of the Government of Canada's DNA Strategy which provided the legislative framework for the use of DNA evidence in criminal proceedings.	
		AUGUST	The Canadian Association of Chiefs of Police (CACP) joins hundreds of organizations across the country in urging the government to create a National DNA Data Bank.	
	1996	JANUARY	Phase II of the Government of Canada's DNA Strategy begins with nation-wide consultations for the establishment of a National DNA Data Bank.	
	1997	APRIL	Bill C-94 receives first reading and dies on the Order Paper.	
		SEPTEMBER	Bill C-94 is re-introduced in the House of Commons under the number C-3 on September 25, 1997.	
	1998	SEPTEMBER	Bill C-3 receives third reading.	
		DECEMBER	Bill C-3 (Statutes of Canada 1998, c.37) receives Royal Assent. Work begins with an aggressive 18 month schedule to establish the NDDB.	
	1999	MOVEMBER	Bill S-10 is tabled in the Senate. Based on Senate recommendations, the bill contains amendments to Bill C-3 including: the taking of fingerprints for identification purposes, the inclusion of offenders convicted of designated offences in the military justice system, and a full legislative review of the DNA legislation and NODB to be conducted by the Senate and House of Commons after five years.	
	2000	HAY	Bill C-3 receives Royal Assent and allows for the establishment of the DNA Data Bank Advisory Committee by passage of Regulations.	
		JUNE	Full proclamation of Bills C-3 and S-10. DNA sample collections are expected to commence immediately following proclamation.	
	2005	MAY	Royal Assent to Bill C-13 (Statutes of Canada, 2005, c.25). Amendments to expand the retroactive scheme; to clarify the NDDB DNA profile sharing procedures with forensic laboratories; and to establish procedures to confirm the validity of DNA Data Bank orders come into force on Royal Assent. Other provisions of the Bill will come into force on proclamation.	
	2007	JUNE	Royal Assent to Bill C-18 (Statutes of Canada 2007, c.22). Amendments to facilitate the implementation of Bill C-13, and: • further expand the retroactive scheme to include attempted murder and conspiracy, and replace the two year serving of sentence requirement with serving on date of the application is serving a sentence of imprisonment for that offence; • allow for DNA Data Bank orders to be made within 90 days after the person is sentenced or found not criminally responsible on account of mental disorder; • allow a person to be summoned for the execution of a DNA Data Bank order and penalties for failure to appear; • clarify international NDDB DNA profile sharing procedures; and • clarify destruction procedures for defective orders.	
100	2008	JANUARY	Full proclamation of Bills C-13 and C-18.	
	2009	FEBRUARY	Start of the Partiamentary Statutory Review of the DNA legislation and NDDB by the House of Commons Standing Committee on Public Safety and National Security.	
		HARCH	Start of the Parliamentary Statutory Review of the DNA legislation and NDDB by the Senate Standing Committee on Legal and Constitutional Affairs.	

14

The National DNA Data Bank



The RCMP, through its Policing Support Services, is the steward of the NDDB on behalf of the Government of Canada. It operates the NDDB for the benefit of the entire law enforcement community within Canada.

The NDDB assists law enforcement agencies in solving crime by:

- Linking crimes where there are no suspects:
- Helping to identify suspects:
- Eliminating suspects where there is no match between crime scene DNA and profiles in the NDDB; and
- Determining whether a setial offender is involved.

The NDDB improves the administration of justice by assisting in the early identification of those who commit serious crimes, and by focusing investigations to eliminate suspects. Robotic technology, coupled with a sophisticated Sample Tracking and Control System" (STaCS"), allows NDDB analysts to rapidly process samples in a cost effective way, while ensuring overall data security and providing quality control throughout the DNA analytical process.

The NDDB strictly adheres to the privacy principles contained within the DNA Identification Act while balancing the need for police officers to identify suspects. Stringent procedures governing the handling of biological samples and resulting DNA profiles ensure that the privacy rights of individuals are protected.

Information collected by the NDDB is used solely for law enforcement purposes. In fact, the DNA profiles are considered anonymous pieces of DNA and, apart from gender, do not specify any medical or physical information about the donor.

Biological samples collected from convicted offenders are processed by the NDDB and the resulting DNA profiles are entered into the Convicted Offenders Index (COI). As of March 51, 2009, the COI contained 158,498 DNA profiles.

The NDDB is also the custodian of the Crime Scene Index (CSI), a separate electronic database comprising DNA profiles obtained from crime scene evidence. Crime scene samples are analyzed and DNA profiles are uploaded into the NDDB by the three Canadian forensic laboratory systems. As of March 31, 2009, the CSI contained 48,268 DNA profiles.

The NDDB's three forensia laboratory partners in Canada are:

- The RCMP Forensic Science and Identification Services (with sites in Halifax, Ottawa, Winnipeg, Regina, Edmonton and Vancouver);
- The Centre of Forensic Sciences in Toronto and Sault Ste. Marie, and
- Laboratoire de sciences indichares et de médecine légale in Montréal.

Possible matches are identified in one of two ways:

- New DNA profiles entered in the CSI are compared against DNA profiles from other crime scenes. These
 matches identify potential links between different crimes which helps investigators to look for other commonalities that may assist with solving the crimes.
- Comparison of new crime scene or convicted offender entries to associate an offender with a particular crime.

In 2008/2009, the NDDB Identified 381 crime scene to crime scene matches, and 2,608 crime scene to convicted offender matches, bringing the rotal hits for this fiscal year to 2,989.

The Working Science

The NDDB comprises two indices: the Convicted Offenders Index and the Crime Scene Index.

THE CONVICTED OFFENDERS INDEX

The Convicted Offenders Index is the electronic DNA profile database developed from biological samples collected from:

- Offenders convicted of designated primary and secondary offences (see Appendix A) identified in section 487.04 of Canada's Criminal Code, and
- 2. Offenders who meet the retroactivity criteria in section 487,055 of the Criminal Code, In general terms, this applies to those convicted of certain serious offences who were already serving a sentence or who had been declared a dangerous offender or a dangerous sexual offender before June 30, 2000 when the DNA Identification Act was proclaimed. (See Key Statistics explanatory notes on page 23 for a complete description of retroactive provisions).

Biological samples from convicted offenders are collected by:

- a peace officer who is able, by virtue of training or experience, to take samples of bodily substances from the
 person, by means of the investigative procedures described in subsection 487.056(6) of Criminal Code;
- or another person who is able, by virtue of training or experience, to take under the direction of a peace officer, samples of bodily substances from the person, by means of those investigative procedures.

These biological samples include:

- Blood: The sample is obtained by using a sterile lancer to prick the fingertip and bloodstains are then
 collected on a specially prepared sample card.
- Buccal: The inside of the mouth is rubbed with a foam applicator to obtain skin sells that are then
 transferred to a specially prepared sample card.
- Hair: Six to eight hairs are pulled out with the root sheath attached which are then placed on a specially prepared sample card.

Convicted offender biological samples are collected and submitted to the NDDB to be processed into DNA profiles. These DNA profiles are loaded into the Combined DNA Index System (CODIS), a software package that stores and compares the profiles. CODIS was developed by the Federal Bureau of Investigation and the U.S. Department of Justice and provided to the NDDB at no cost. The software is a universally accepted standard for forensic laboratories, which allows the NDDB to participate in the sharing of information through an international agreement with INTERPOL, approved by the Government of Canada which limits its use to the investigation and prosecution of a criminal offence.

THE CRIME SCENE INDEX

The Crime Scene Index is a separate electronic database composed of DNA profiles obtained from crime scene investigations of the same designated offences as the Convicted Offenders Index. Exhibits containing biological evidence are collected by investigators and submitted to one of the three forensic laboratory systems (RCMP Forensic Science and Identification Services, Laboratoire de sciences judiciaires et de médecine légale, and the Centre of Forensic Sciences).

Information from the resulting DNA profiles is uploaded into the Crime Scene Index by the forensic laboratories. The NDDB retains this electronic information as well as basic details such as the date, location of the submitting laboratory and a unique number identifier that allows information to be compared by the submitting laboratory in the event of a future match.

PRIVACY OF INFORMATION

It is important to note that convicted offender samples are identified simply by a bar code number and that crime scene samples are identified by a unique number identifier. In fact, the donor identity of a convicted offender is separated from the genetic information when the sample arrives at the NDDB. The bar code is the only link between personal information, the biological sample and the DNA profile. The personal information is protected information that is not accessible by NDDB staff, and is kept in a separate registry by the RCMP's Canadian Criminal Real Time Identification Services (CCRTIS).

The DNA Identification Act makes it clear that the NDDB profiles can only be used for law enforcement purposes. The NDDB does not share the DNA profiles with anyone other than law enforcement agencies. The DNA profiles are the result of 13 specific DNA markers that are tested to produce a DNA profile which is unique to each individual (with the exception of identical twins). These 13 regions of interest are considered attornymous, and other than gender, do not provide specific medical or physical information about the donor. The regions chosen by the NDDB are the same regions of genetic variation used throughout the United States and in many other countries conducting forensic DNA analysis.

Process for Reporting a Match

NODB PROCESSES BIOLOGICAL SAMPLES FROM CONVICTED OFFENDERS AND UPLOADS THE RESULTING DNA PROFILES INTO THE CONVICTED OFFENDERS INDEX.

FORENSIC LAHORATORIES PROCESS BIOLOGICAL SAMPLES LEFT AT CRIME SCENES AND UPLOAD THE RESULTING DNA PROFILES INTO THE CRIME SCENE INDEX OF THE NDDB.

NOOB RUNS A SEARCH BETWEEN THE CRIME SCENE INDEX AND THE CONVICTED OFFENDERS INDEX.

MATCH BETWEEN A CONVICTED OFFENDER PROFILE AND A CRIME SCENE PROFILE.

BARECODE, LABORATORY IDENTIFIER AND CODIS IDENTIFIER BROUGHT TO CANADIAN POLICE SERVICES INFORMATION CENTRE (CPSIC)

CPSIC FORWARDS THE CONVICTED OFFENDER DATA TO THE FORENSIC LABORATORY.

FORENSIC LABORATORY PASSES THE CONVICTED OFFENDER IDENTITY INFORMATION TO THE INVESTIGATOR.

Process for Confirming a Match

Once the investigator has received the convicted offender's identity from the forensic laboratory, the following procedure is followed to confirm the match.

THE INVESTIGATOR ASSESSES THE CASE EVIDENCE TO DETERMINE IF FURTHER INVESTIGATION OF THE SUSPECT IS REQUIRED.

IF EVIDENCE OF A MATCH BETWEEN THE CONVICTED OFFENDER AND THE CRIME SCENE PROFILE IS REQUIRED FOR COURT PURPOSES. THE INVESTIGATOR MUST APPLY TO A PROVINCIAL COURT JUDGE FOR A DNA WARRANT. IF THE WARRANT IS ORDERED, A BIOLOGICAL SAMPLE CAN BE COLLECTED FROM THE SUSPECT UNDER THAT AUTHORITY.

THE BIOLOGICAL SAMPLE IS SUBMITTED TO A FORENSIC LABORATORY FOR ANALYSIS.

THE LABORATORY COMPARES THE SUSPECT'S DNA PROFILE TO THAT OF THE CRIME SCENE EVIDENCE.

THE FORENSIC LABORATORY ISSUES A REPORT CONFIRMING A MATCH BETWEEN
THE SUSPECT'S DNA PROFILE AND THAT OF THE CRIME SCENE EVIDENCE.

BASED ON THE LABORATORY REPORT AND OTHER INVESTIGATIVE INFORMATION, THE INVESTIGATOR CAN CONSIDER WHETHER CHARGES SHOULD BE LAID OR RECOMMENDED AGAINST THE SUSPECT.

National DNA Data Bank Advisory Committee

Experts in their field, members of the National DNA Data Bank Advisory Committee have shown their commitment to the National DNA Data Bank's success since it was created nine years ago. Most of the members have sat on the committee since the National DNA Data Bank's inception in 2000. With diverse backgrounds in areas such as policing, privacy, molecular biological sciences, genetics, medical ethics and the law, committee members provide relevant and informed reports and advice to the Commissioner of the RCMP as part of their mandate.

The NDDB Advisory Committee was established pursuant to the DNA Data Bank Advisory Committee Regulations under the authority of the DNA Identification Act. The committee meets two to three times a year and provides a forum for discussing policy and operational activities and reviewing key issues on governance, legislation, risk awareness, training and new technology. This year, members have been involved in the Parliamentary reviews of the National DNA Data Bank and its enabling legislation. Bolstered by the success of the National DNA Data Bank, linking offenders to crime, the reviews are meant to further examine how the Data Bank can continue to be used to enhance public safety and justice for all Canadians.

The Advisory Committee welcomed the opportunity to offer its opinion to the House and Senate committees with respect to several issues, including victim identification, unidentified human remains and the National Missing Person's Index, among others. We look forward to the conclusion of the Parliamentary reviews in coming months and hearing their recommendations on how to achieve greater results.

Recently reappointed as Chairperson for another five-year term, I am delighted to see what the future holds for the ever evolving landscape of DNA collection. The National DNA Data Bank has proven a very effective tool for police agencies across the country. Those of us who have the privilege to sit on the Advisory Committee will continue to watch for new technological advances and trends in the international community to help ensure Canada's National DNA Data Bank remains a valued resource for stakeholders from coast to coast.

RICHARD BERGMAN
M.SC., DEPUTY COMMISSIONER (RETIRED), CHAIRPERSON
NATIONAL DNA DATA BANK ADVISORY COMMITTEE

National DNA Data Bank Advisory Committee Members

RICHARD A. BERGMAN

M.Sc., D/Commr. (Rtd), Chairperson, former Director of the RCMP Forensic Laboratories and Deputy Commissioner, National Police Services, and Deputy Commissioner, Atlantic Region,

CHANTAL BERNIER

Assistant Commissioner, Office of the Privacy Commissioner of Canada. Ms. Bernier was appointed by Order-in-Council as Assistant Privacy Commissioner (Privacy Act) on December 8, 2008 and was appointed as the newest member of the National DNA Data Bank Advisory Committee in February 2009.

DR. FREDERICK R. BIEBER

Canadian-born Associate Professor of Pathology in the Faculty of Medicine at Harvard University, Boston, Massachusetts.

Dr. Bieber is a medical geneticist and a specialist in bio-medical ethics.

DR. GEORGE R. CARMODY

Vice Chairperson, Population Biology Specialist and Adjunct Research Professor of Biology at Carteton University. Dr. Carmody is known nationally and internationally as a regular expert witness in population genetics and statistics as applied to forensic applications.

GISÈLE COTÉ-HARPER

O.C., Q.C., graduate of Harvard Law School and currently a Barrister and Emeritus Professor at the Faculty of Law, Université Laval.

Mme Côté-Harper is recognized halienelly and internationally as a legal expert on Human Rights issues.

THE HONOURABLE PETER CORY

C.C., C.D., Q.C., retired Justice of the Supreme Court of Canada. The Honourable Peter Cory is currently Special Advisor to the Federal Department of Justice. He conducts arbitration and mediation work at the Osler ADR Centre and is Chancellor Emeritus of York University.

RAYMOND D'AOUST

Assistant Commissioner, Office of the Privacy Commissioner of Canada. Mr. D'Aoust represented the Office of the Privacy Commissioner and served on the Advisory Committee from December 2003 until September 2008.

DR. WILLIAM S. DAVIDSON

Medical Genetics Specialist and Professor of Molecular Biology and Biochemistry, Simon Fraser University (Burnaby, B.C.). Dr. Davidson has published widely in the areas of molecular evolution, population genetics, genomics and human genetics.

DR. RON FOURNEY

O.O.M., Director, National Services and Research, Forentic Science and Identification Services, RCMP. Dr. Fourney is a Molecular Genetics Specialist and founding member of the RCMP DNA program. He has been instrumental in the development and implementation of forensic DNA typing for Canada.

Key Statistics - MARCH 31, 2009

STATE OF THE PARTY			
Breaking and Enter	ing With	Intent.	11/2
Committing an Offe	nce, or	reaking 0	- 1864 St.
Sexual Offence			F1,540
Robbery			
Assault			
Homicide			730
Attempted Murder			275
Olher			

Offender Hit ICrima Scene Index to Convicted Offenders Index	
Forensic Hit Crime Scane Index to Crime Scane Index)	1,788
Offender Duplicate [Two samples taken from the same person]	
Identical DNA Profiles from different individuals Les Identical twices	

EXPLANATORY NOTES

Offender "Hit": A DNA profile developed from crime scene evidence and enteted in the NDDB matches a DNA profile in the Convicted Offenders Index.

Forensic "Hit": A DNA profile developed from a time scene evidence and entered in the Crime Scene Index of the NDDB matches another crime scene DNA profile in the Crime Scene Index.

Offender Duplicate: Cases where two biological samples from the same person were submitted to the NDDB.

Identical DNA Profiles: Profiles of identical twins.

International Participation: As of March 31, 2009, the NDDB has received 481 incoming international requests to search its indices (COI and CSI) which resulted in one Offender Hit and one Forensic Hir. The NDDB has sem out 100 outgoing search requests which resulted in one Offender Hit and one Forensic Hir.

15550	PER DESIGNATION OF THE	B		
Convict	ed Offende	raindex		
Crime S	rena Index			

Centre a	f Forensic Sciences and Sauli Ste. Maciei		
Laberals de méde	oire de sciences jud cine tégale (Monirée		
RCMP For	ransic Science and Ide	entification Sarvice	

Fig. About Supervise and Epica and Supervise and Committee and Committee

EXPLANATORY NOTES

Convicted Offenders Profile: A DNA profile from an offender convicted of a designated offence (see Appendix A)

Crime Scene Profile: A DNA profile developed from biological evidence found at a crime scene.

TABLE 5 — BREAKDOWN OF CONVICTED OFFENDER SAMPLES RECEIVED ACCORDING TO CATEGORY AND OFFENCE TYPE

DNA Data Bank	Orders		7775333
CHICAGON AUT	horizations		
			171 003

		90.014
		District Co.
		79,514
		1,475
		171 883

EXPLANATORY NOTES

The Convicted Offenders Index is a post-conviction database compused of two categories of samples

L. DNA Data Bank Orders

Since January 2008, the Retrospective and Prospective category of offenders have been combined and include DNA samples collected from an offender who is convicted of an offence committed at any time, including before June 30, 2000, if the offence is a designated offence when the person is sentenced at discharged.

2. Retroactive Authorizations

A biological sample taken from an offender who was found guilty of a designated Crownial Code offence before June 30, 2000 and who had been

- st. Acclared a dangerous offender under Pair SXIV
- b. declared a dangerous offender of a dangerous association of control part XXI of the 1 association from the chapter C-34 of the Revised Summer of Canada, 1970, or a read from time to three before largers 1, 1986.
- c. convicted of murder:

 c.1. convicted of artempted unrafer or conspiracy to commit murder or to cause another person to be murdered and in enterprise serving a superior to commit murder or to cause another person to
- d. convieted of a sexual offence within the meaning of subsection 487.055(3) of the Cerminal Code and is currently serving a senionce of imprisonment for that offence; in
- e. convicted of manufaughter and is currently previous a unicase of improvements for about

As of March 41, 2009, approximately 6,116 oftendors qualified for inclinion in the retrosumer category as defined by fulls 6. 3 and 6.-130C-18. From this life of qualified offendors, 3.097 files were concluded with the remainder being perpared by the Attorneys General for court applications.

Primary and Secondary Offences: See Appendix A.

Samples Received versus Profiles Contained in the Convicted Offenders Index

do not March 31, 2009, the NDDW had received 171 only budge all simples, of which 155, 915 138% predicts seen command in the Conversed Offenders index. The difference of "Pin can be attributed or reacted amplies dispose to samples, budge all samples in the process of bying treated and profiles removed from the Conversed 1 Offenders finder became the tetention period was expired, the convertion of the order anchorization quadrat on appear.

TABLE 6 - CONVICTED OFFENDER SAMPLES RECEIVED BY PROVINCE

British Calumbia	18,984
Million	17,655
Saskalchowan	7,790
Maniitoba	9,261
Ofitario	76,031
Guidalic	29,525
Till to Attached	2,379

Newfoundland & Labrador	
7.6161	
Morth West Territories	
Núnavut	
TOTAL	171,403

a to the first exemples it a mount and violate has all the constraint of a province a liquid to the

TABLE 7 - TYPE OF SAMPLES RECEIVED

H MAN		168,509
- FUESIL		2,307
100		
ROTAL		171,003

TABLE 8 — BREAKDOWN OF CONVICTED

	148,890

NAMED BETTER CLONS

The NDDB has rejected only 1.5% of the samples it has received to date. Reasons for rejection include; offender convicted of a non-designated offence, mailequate biological samples, use of inappropriate collection kit, lack of order and others. More than 55% of the samples rejected were collected from offenders convicted of non-designated offences and are therefore not eligible for inclusion in the Convicted Offenders Index.

The number of samples rejected do not include biological samples submitted without fingerprints. Typically, if the collection officer can confirm the identity of the offender, continuity to established and the sample can be accepted. Since June 30, 2000, the NDDB has received 885 biological samples that did not contain the fingerprint identification on the sample can be accepted.

COLLECTION OF ADDITIONAL BODILY SUBSTANCES

In some instances, bodily substances have to be taken a second time, pursuant to a re-sampling authorization issued under subsection 187 (0111) at the Criminal Code which provides for an application for re-sampling when the original sample submitted is rejected. If the quality of the biological sample submitted is deemed inadequate for DNA analysis or if it had not been transmitted in accordance with the DNA Identification Regulation, the sample can be rejected. Since June 30, 2000, the NDDB has received 433 samples that were taken under this provintion.

TABLE 9 - CONVICTED OFFENDERS INDEX

Break and Enter	23,967
Robbery	
Sexual Offence	31,253
	5,422
Controlled Drugs and Substance Act 1005AI	4,804
	10,821

UNITED BY A STREET OF THE PARTY OF THE PARTY

	ALL ROOMS IN A RECEIPT OF THE PROPERTY OF THE	
TABLE 10 -	BREAKDOWN OF BIOLOGICAL	
	SAMPLES DESTROYED AND DNA	
	PROFILES REMOVED FROM THE	
	CONVICTED OFFENDERS INDEX	

TANKS OF THE STATE	Explication of	or a feligion of a gal
	ABULT YO	UNG PERSON
Conditional discharge	1,578	245
Conviction guashed on appea	1 209	13
Absolute discharge		16
Duplicate sample (same order)		
No suitable DNA profile obtain	ed 43	
Order/authorization quashed		
Retantion period expired	N/A	
Other		
TOTAL	2,017	869

ALCA SULT A ROBE OF A REAL P.

EXPLANATORY NOTES

Assault includes assault with a weapon or causing bodily harm, aggravated assault, assaulting a peace officer, overcoming resisting to commission of offence, criminal harassment and uttering threats.

Break and Enter includes break and enter with intent, being unlawfully in dwelling-house, break and entering a place other than dwelling-house and possession of break-in instruments.

Robbery includes robbery and extortion;

Sexual Offence includes rape, sexual intercourse with a female under 14 and between 14 and 16, sexual intercourse with the feeble-minded, sexual interference, invitation to sexual touching, sexual exploitation, incest, bestiality in the presence of or by a child, child pornography, indecent acts, offence in relation to juvenile proximition, sexual assault with a weapon, aggravated sexual assault, sexual assault, indecent assault, gross indecency, proximition and litring a child.

Homicide includes manulanghar

Controlled Drugs and Substances Act includes possession for purpose of trafficking, import or export of controlled piles are controlled piles are controlled piles are controlled piles and production of substances.

The Other estegory includes using explosives, causing death by cruninal negligence, causing bodily harm by attintial negligence, causing bodily harm with futent dangerous operation causing death, failure to stop at the score of an accident, imported driving easing death, unlawfully causing bodily harm, kidnapping, howage taking, muschief causing danger to life, aroun-disregard to human life, writing fite to other substance around over property, fivering, feath, counterfering, criminal organization, ewaps, flight, theft over \$5,000, forgers, disease and intimidation.

and the state of t	a description of the second of the second of the second of the
British Columbia 829	Nova Scotia
Alberta 439	Prince Edward Island
Saskatchewan 106	Newfoundland & Labrader

Saskatchev	van			106
Manitoba				229
Ontario				4,669
Quebec				878
New Bruns	wick			

Newfaund	land & L	abrader		
Yukon				
North We		ries		

NUTC. The above offered no copy supply the constant stronge and examines received and constructed to a supply of convenience augmentations where we are a constant and the convenience augmentations are supply of the convenience augmentations and the convenience augmentations are supply as a supply of the convenience augmentations are supply as a supply of the convenience augmentations are supply as a supply of the convenience augmentations are supply as a supply of the convenience augmentations are supply as a supply of the convenience augmentations are supply as a supply of the convenience augmentations are supply as a supply of the convenience augmentations are supply as a supply of the convenience augmentation and the convenience augmentation are supply as a supply of the convenience augmentation are supply as a supply of the convenience augmentation are supply as a supply of the convenience augmentation are supply as a supply of the convenience augmentation are supply as a supply of the convenience augmentation are supply as a supply of the convenience augmentation and the convenience augmentation are supply as a supply of the convenience augmentation are supply as a supply of the convenience augmentation are supply as a supply of the convenience augmentation are supply as a sup

TABLE 12 -	- BREAKDOWN	OF EN	ORSE	HENTS
	RECEIVED			

Adult Off	ender			3533
Vauna Atl				
Mark Sale	PHYSIC ST			100
Military (Offender			
24				

TABLE TO - ENCORSEMENTS BREAKDOWN BY OFFENCE

Assault	4,609
Break and Enter	
Controlled Drugs and Substance Act (CDSA)	
Other	1.417
TOTAL	

HOTE: Manufactur and attacks the second advantage to a company

ENDORSEMENT REJECTIONS

The NDDB has rejected only 1.3% of the endorsements it has received to date. Reasons for rejection include: DNA profile from the offender is not contained in the COL offender convicted of a non-designated offence and others. More than 51% of the endorsements rejected were collected from offenders convicted of non-designated offences and are therefore not eligible for inclusion in the Convicted Offenders Index.

Financial Statement

APRIL 1, 2008 - MARCH 31, 2009	
EXPENDITURE TYPE	EXPENDITURE IS THOUSANDS!
Personnel	1,557
Transport and Telecommunications	29.
Development and Infrastructure Support	105
Bentala	
Repair and Maintenance	102
Utilities, Materials and Supplies	972
Capital and Minor Equipment Purchases	32
Miscellaneous	
SUB-TOTAL	2,739
Indirect Costs'	925
TOTAL	3,664

Indicate Coast menuals. Furnish for the angular and Equation to return administrative and surports, Catalities on Integration, Research and Environmental State of the Coast of the Coast of Association of the National DNA Data Rank Advisory Committee.

A Day in the Life of



National DNA Data Bank





André Savoie + COLLECTIONS AND TRAINING MANAGER

A 34-year police veteran, including 27 years as a Forensic Identification Specialist, André Savoie is currently acting as the National DNA Data Bank's Collections and Training Manager.

His career as a police officer has provided Savore with extensive knowledge of the procedures used by the police in the collection of biological evidence at crime scenes and in the court-ordered collection of convicted offender samples. It is dealing with numerous palice agencies in relation to the NDDB that Savore calls the most interesting part of his inc.

Savoie works as the main NODH harmon person with Ganadian Criminal Real Time Identification Services ICCRTISI, the RCMP unit responsible for maintaining the national repository of criminal records and fingerprints in Canada, as well as with police agencies across Canada. He enjoys his work, meeting with a wide variety of people involved in policing and the Canadian justice system.

Possessed of natural currently and a desire to teach and tearn. Savole is responsible for oncouraging his staff.

to perform their duties with the highest standards. A menter to younger members, he trains, supervises and provides leadership to the Kit Reception Unit — a team of three DNA Sample Verification Technicians tasked with ensuring that biological samples are accepted or rejected according to established protocols and current legislation.

Savere travels across Canada delivering training courses to police, ensuring that they have up-to-date knowledge and skills in convicted offender DNA sample collection and the associated authorizing legislation. He also delivers information sessions to court personnel and crown procedures.

Savore, like his colleagues, is quick to say how much he relishes working with a competent and effective team and how proud he is to be part of seeing justice served.



Hélène Lacombe . DNA SAMPLE VERIFICATION TECHNICIAN

A gloved hand reaches into a Mylar pouch and removes a sample collection card containing the blood and index fingerprints of a convicted offender. No details about the offender, not even the gender, are listed on the collection card. The individual is only identified by a bar code number to protect his or her privacy. A judge has ordered this person's DNA profile be entered into the National DNA Data Bank because they have been convicted of a specific crime.

Today, the gloved hand belongs to Helene Lacombe, As one of three DNA Sample Verification Technicians in Kit. Reception, she ensures that convicted offenders DNA samples submitted are suitable and that information received is accurate and in accordance with the DNA legislation and regulations, Lacombe also determines whether samples are acceptable for inclusion in the NDDB's Convicted Offenders Index.

Kit Reception Unit, part of the NDDB's Training and Collections Unit, is located at RCMP Headquarters in Ottawa and is the point of entry for every biological sample collected from convicted offenders. Samples along with court orders/authorizations sent to the NDDB, are received from police forces across Canada. The three people tasked with this job in Canada are kept busy with between 400 to 700 samples becomes across orders.

Lacombe is proud to say that she is a member of the NDDB where she has worked since January 2000. She still recalls the feeling of glee when, in July 2000, has

unit received their very first DNA sample to be entered in the Data Bank. "It was from the Süreté du Quebos in Montreal, she said. "It was a very exciting day for everyone."

Communication is an important part of life at the NODB. We are in touch with our contributors, pulse forces across Canada, and the provincial courts on a daily basis," and Lacombe. If samples are taken incorrectly, we contact the police officers directly. We explain to their how to lake a sample properly and answer any questions they have about the collection of the biological sample. We also contact the courts if there are any discrepancies in the legal documents. One of our responsibilities is to ensure that the legal information received with every submission is accurate.

White changes in the legislation have increased our workload tremendously. I really enjoy what I do. I enjoy hillping police officers in any way I can.

Anne Hale . DNA ANALYST

Anne Hale has been a qualified DNA Analyst and CODIS Administrator with the National DNA Data Bank since its inception in June 2000. Her previous twelve years as a licensed Medical Laboratory Technologist at the Ottawa Hospital and three years at the Public Health Laboratory, enabled her to make a seamless transition into the meticulous world of forensic DNA Analysis.

While she tries to explain her daily work routine in simple terms, she sonly samewhat successful, throwing inwords like "thermal cycler," "PCR amplification," and most technical of all, "capillary electropheresis" — which, as Hale explains, is when the DNA is put in a gel to separate the DNA fragments.

As one of a team of ten qualified DNA analysts, Hale is responsible for the timely analysis of convicted offender samples submitted to the NDDB from police agencies across Canada.

The first question is, "Is it like CSI?" said Hale, referring to a question she's asked the most about her job. "We can't generate a DNA profile in an hour," she said with a laugh, adding, "We don't wear stilettos in the lab either."

NDDB DNA Analysts receive biological samples collected from convicted offenders from Kit Reception, and with the help of leading edge robotic technology, and a Sample Tracking and Control System [STaCSTM], they purify, amplify and separate DNA fragments and generate DNA profiles in a simplified numerical format. To produce a DNA profile, a small portion of the

biological sample is purified and the DNA is amplified one billion-fold, said Hale.

Once the DNA profiles have been generated, it is also the analyst's responsibility to examine the data, interpret the results and determine the final DNA profile. The confirmed DNA profiles are uploaded to the Convicted Offenders Index of the NDDB. The DNA profiles are searched against unsolved crime scene DNA profiles from across the country. Each upload of about 150 different convicted offender DNA profiles yields an average of 25 to 30 matches, she said. "It's always very exciting to get a match," said Hale, noting, due to strict privacy laws, analysts are not aware of the identity of the offender linked to a crime, only that a link has been made.

Hale says she enjoys working with such an innovative and trustworthy investigative tool that contributes to the administration of justice and the safety of Canadians. She is looking forward to the continued successes of the NDDB, by engaging in the development of new scientific and technological processes to further enhance its operations.





Pierre Gagnon + QUALITY MANAGER

Pierre Gagnon has been a Civilian Member of the RCMP since 1983, when he joined the organization as a technologist in the former Serology Section of the Halifax forensic laboratory. He transferred to the Ottawa laboratory in 1986 and, in November 1999, Gagnon joined the newly created National DNA Data Bank as the Quality Manager — a very important role in the world of forensic science.

As the NDDB's Quality Manager, Gagnon ensures that the processes and procedures used for DNA analysis of biological samples obtained from convicted offenders strictly adhere to national and international quality assurance standards. He trained with the Standards Council of Canada on matters concerning formal accreditation of the NDDB, and advises staff of scientific and technical measures required to maintain accreditation status. "When I started as a Quality Manager in 1999, we were not an accredited lab," said Gagnon, who helped the Data Bank achieve accreditation status in March 2004 under the ISO 17025 International Standard.

Gagnon ensures that control samples are available for DNA analysis throughout the week. He also test new lots of critical reagents to ensure they pass quality control requirements and can be used for developing DNA profiles from convicted offender biological samples. Control samples and critical reagents include the internal standards and chemicals used in DNA analysis and profile generation. "Basically what I do is I use known samples and test samething new, said Gagnon who had used his own DNA hundreds of times to test the reagents.

In addition, Gagnon participates in the development and updating of documents related to the quality assurance program and preparation of the proficiency tests administered to NODB personnel. He also assesses client service feedback and provides advice to management on client service issues.

Sylvain Lalonde . NATIONAL CODIS MANAGER

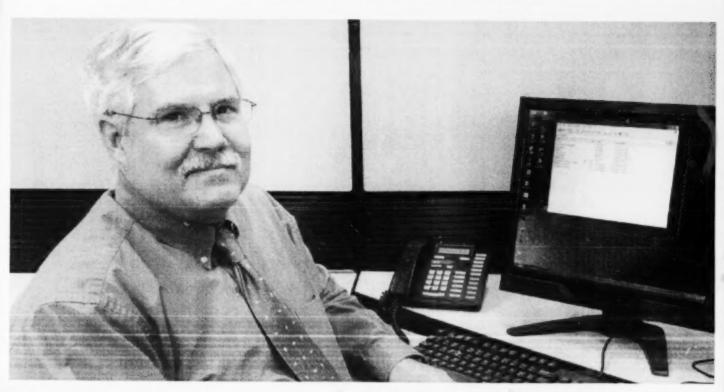
Sylvain Lalonde clearly loves his job. With what he describes as "three careers" spanning 27 years with the RCMP — the first half as a Hair and Fibre examiner, he was also one of the original forensic biologists who introduced forensic DNA analysis to western Canada. He joined the National DNA Data Bank in 2000 as the National CODIS Manager. "I was one of the original guys," said Lalonde. "We had to train all the new CODIS Administrators and set up all the hardware, software and network prior to June 30, 2000. It was a busy time."

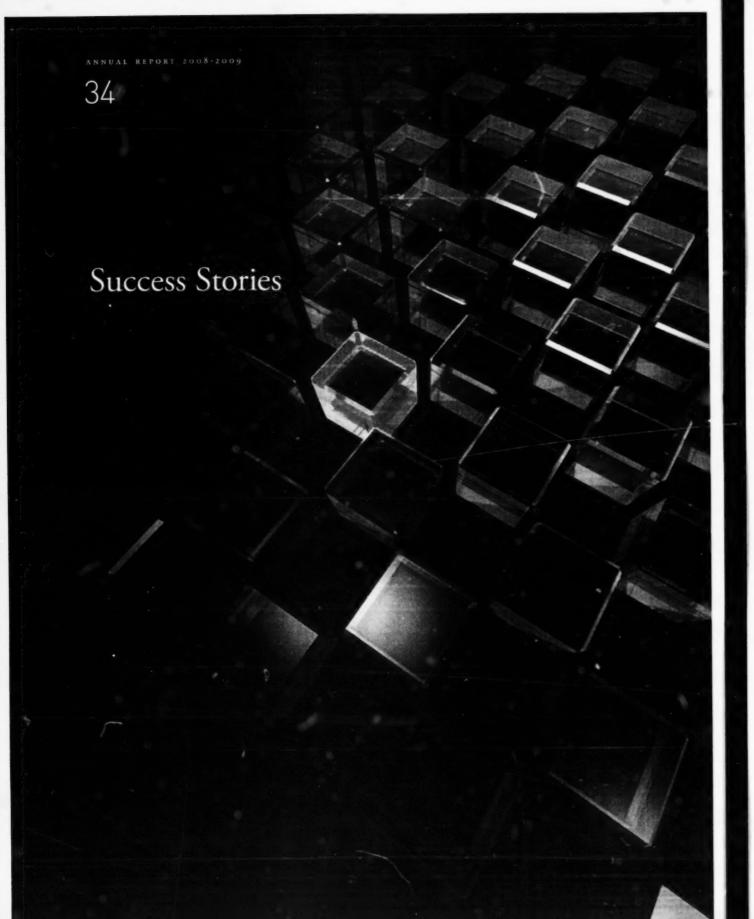
CODIS is the acronym for the Combined DNA Index System. It is a database program distributed by the Federal Bureau of Investigation and the U.S. Department of Justice to store and search forensic DNA profiles. Outside the United States, more than 41 labs in 33 countries use it. There are 178 CODIS labs in the United States alone and Canada runs the largest CODIS network outside the U.S. Lalonde enjoys the apportunity to meet forensic "databasers" from other laboratories working in different countries.

Upon arriving at his desk each day, Lalonde flicks on his computer and checks on any uploads from forensic labs from the day before. He is responsible for the network that connects all the CODIS computers of the Canadian forensic laboratories and the NDDB. "Within a

week, we get more than 600 DNA profiles from convicted offender samples," said Lalonde, noting another 80 to 100 crime scene profile samples are also sent in weekly.

Like so many of his colleagues in the NDDB, he finds the best part of his job is the opportunity to work with a fantastic team, both inside and outside the RCMP. One of the many rewards, according to Lalonde, is hearing from investigators how a lead from the NDDB helped solve a case. He has had many special moments in his line of work, including the time he and his colleagues provided the hit that helped identify the man who murdered a young Edmonton girl more than a decade earlier. "We see our success every day. Over 150 hits a week, providing leads for investigators — leads they didn't have before. It's a very positive place to work."







DNA Sends Killer to Jail for Life

grandmother would likely have avoided jail time had it. By the forensic laboratory and additional samples were ecutor Melodi Kujawa, referring te DNA samples taken - generated a DNA profile from a single male dunor, Police from several items found following the 1999 murder - had the DNA profile they needed but it matched none of



Blood Left at Crime Scene Puts Church Robber behind Bars

Never in his meanly 35-year police career had Grey County Defective Sergeant Len Johnston of the Ontario Provincial Police come across a repeat burglar quite like this one. And had it not been for a small amount of blood found on a broken window at one of the hundreds of break-ing investigated over the span of several years, a Barrie man way never have been convicted of the crimes.

We got him on a DNA hit," said Johnston, nating the prolific thief targeted more than 300 churches and community centres throughout Ontario and once made off with upwards of \$12,000 from one robbery. It made the case."

The DNA profile obtained from the blood sample which was found following the break and enter in Direy County, Distance in March 2008, was entered into the Erone Scene Index at the NODB, it is shed the DNA profile of a man this had been ordered to submit a semple to the Convicted Offenders Index following a separate conviction in 2009. Police had what they needed to sharpe a 49-year-old Barrie man in May 2008 in connection with the rash of theirs. In June he pleaded guilty in 279 arminal offeness, sating back seven years. He is now serving a six year sentence.

The charges related to break and enters and thefts that occurred in the DPP's West, Northeast, East and Central Regions as well as areas policed by the Belleville.

Burham Regional, Hatten Regional, Oxford Community.

South Simone, Waterley Regional, York Regional and Port Hope Police Services.

Prior to the man's arrest, police in scullwestern Ontario kept a close eye on churches, some of which was been burglarized more than once. The digo mis the shurshes and look for staches of cash." Laid Johnston, who was one of several investigators that received an look armore a ciscolade award for his involvement in assuing the take. The bulk a safe at one place. It was money he was after. The suspect's arrest was the subministrate of an intensive most specificational investigating by the CEP, the West Drey, the Hanover and the Whosham Pages Services that began in January 2008.

Previous DNA Countriator Detective Sergons Miss illustrate called the outside of the page sextramely revisions and satisfying. To was committing manipulate a wherever he lived and he lived everywhere in the proyect, said Bussieres.

Johnston and the successful arrest and convertion a prest at the effectiveness of the NDOB. The DNA Data dank is just a year good tool, the said. As the number of DNA profiles contained in the DNA Data Bank increases there will be more and more fitte.

Fingernail Scraping Helps Nail Down Jogger's Attacker

A woman dragged from a popular Thurder Bay trail into the bushes and sexually assaulted saw potics served 16 years after see was attained. The time 37-year-old woman's ordeal flagan on a Thursday morning in September 1992, when she was our jugging. Shortly after 10 arm, she was graphed from behind and dragged into a wooded area off the trail that weaves around Boulevard Lake, in the rorth and of the saty.

She lought back and managed to askatch his affacker's neck, drawing blood. Undeterried, the assatian gar on top of his, threatened to kill her and choked her unto she felt unconscious. The man first the scene before the regained tensions some She was his awake, more than half as your had passed. The made her way in a joint butter, where a motor of slupped to help. She went ham and later, went to have said.

The subsequent police investigation failed to produce a primary suspect Despite limited technology available at the time. Thunder Bay Police's Farence Identification Section preserved a sample of the same from under the woman's Engernal and identification the woman's Engernal and identification in 1999, as a result of advances in forensic DNA technology. Thunder Bay Police resubmitted the forensic DNA technology. Thunder woman's right hand to the Centre of Farence Science.

Northern Regional Ferritor Laboratory A control UNA profile was developed and amount on the Elec-Scotte Index of the NORE

It was a plasme whodent case, and Trumber Bay Palice Detective Inspector Dan Trumber of the largest Criminal Investigations Branch Investigables cast their net as wide as possible, checking for process support in hostels, morals, hotels and arminals just released from pul, he said. It included overy manufalling to thought at look large.

Another seven years passed will enranged through the break they needed to see 2008. I hunder Bay Ponce were notified by the NDDR two the DNA trees the linger not erraping matched a pro-state after-law whose DNA had been submitted to the fallow.

The effective was arrested in all later with a tragreater Sudhury area. During this trial, a territorial and an arrested indicated that the estimated probability of an arrested in dividual having a matching DNA probability of an arrested in 450 hitms. In 2008, is seen after the establishment of the e





Stored DNA Nets Rapist a 13-Year Sentence

Askers in her Friend's living room, a hyven-year-old Livington get may abilisted, sexually assumed and left askers half raised in a day's alley. More than a dayade later, he man responsible for the rooms was sestimated to 13 years in just for endrapping, amagelial archimental and against and sexual assuut in connection with the afface may stated bases about 1915.

If out for the DNA evidence afflected after the dissoring stone it sends their wave gens unaccess, and from presentate Avrá Herran. This case was muchated 100 ways addeways, and Herran. We never would have found the affirmer without the IDNA.

The affection dates back to 1975, when a 18-yearnia man broke onto the freed's home through a back
the grabbed the little girt and when the struggled.

Litinged grand over her moulti and carried for to a
marry alleg tie intreatmed in break her each and secumy assaulted nor in the mud before fleming. In estigators
questioned appears of people, who either had a connection
to till little girl or to the name. After several months, the
man exemutally went told.

means after, a retiring police officer who had been

reopened and evidence sent for forensic DNA testing. Any DNA profites developed would be entered in the Crime Scene Index of the newly created NDBB, said Horror. "It was such a noteworthy case," she said - the fall like it was business him."

Investigators hit the jackpet in 2003, when a DNA profile estained from the bettom of the child's pylama top and on a handmade quilt matched the DNA profile of a man who had been ordered to subrid a sample is the Convicted Offenders Index of the NODB littlewing an assault conviction. Police received a blood sample from the suspect and analysis confirmed the match.

The 32-year-old man was sharped in 2005 and he pleaded not guilty. During the trial, which we speed up to Dotober 2008, the jury heard compressing expension including taped interviews from the rhild herical describing the incident. A forensic bounts (testified the under a landom match to the DNA round on the child's reviews were use in 850 feitien.

What this case appairs to it the importance of the National DNA Data Bank, and Herren, a Crown prosecutor for the past seven years. DNA is a quantifiable source of evidence which can be extremely probation.

DNA Hit Nabs Home Invasion Suspect

Surrey RCMP creditors the NDDB with helping solve a re-

Iwo men trake into a waman's hame in Surrey B.C., in September 2008 and demanded money and jewelry. One of the men also sexually assaulted the woman, and left a sample of one DNA at the crime scene. "Ultimately, that DNA sample led to a CODIS hit," said Surrey RCMP Major Crime Wobbery Section Constable Bill Robinson, referring to the Combined DNA Index System. CODIS to the computer system used by the NDDB to store and search DNA profiles, assisting in the identification of suspects in series. A DNA swab, according to Robinson, was our main form of identifying the suspect."

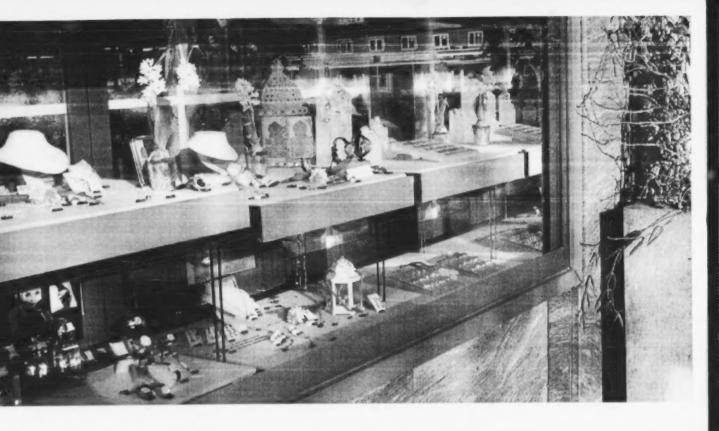
"Essentially we had no leads until we had that CODIS hit," soid Robinson, highlighting the importance of the NDOB. The suspect was not known to the victim. It just appeared to be a crime of opportunity."

A 32-year-old man from British Columbia's Lower Mainland, who was known to police, was charged less than one month after the attack with sexual assault, break and enter, forcible confinement and robbery. He is awaiting trial.

"With court-ordered DNA and the fact that more and more affenders have to provide their DNA, over the years there will be more people in the Data Bank," said Robinson. "Wo're getting hits now on lites that were three, four and two years old."



The second secon



DNA Solves Four-Year-Old Jewelry Store Heist

Donning masks to cover their faces, three man in Windson, Ontario made off with thousands of deliars worth of goods in a brazen daytime jowelry store relicions in March 2005. The well-planned blits burglary, which fasted sit of 70 seconds, was captured by surveillance cameras. Armed with a handgun, one suspect harded the store's three employees into a back room, while the two other suspects used harmers to smooth the years drappay counters and stuff jowelry and high-end watches into bags they brought with them.

The trip escaped in a white Ford van that furned out to have been stolen earlier that morning. It was recovered unoccupied elsewhere in the city, 15 minutes after the robbery, A Forensic Identification officer found tresh plood on one of the jewelry display cases. Investigators believed one of the suspects cut himself white smashing the glass counters. The DNA sample was sent to the Ecntre of Farensic Sciences in Toronto where a DNA profite was developed and stored in the Erime Scene Index of the NDDB. It was the only blood swab from the robbery submitted for DNA analysis.

Despite an insurance company offer of \$10,000 for information, the case stood dormant for four years. Earlier this year, investigators got a break in the case. Windsor Police were notified in January that the crime scene DNA sample sent in 7000 matched a sample

recently provided to the Convicted Offenders Index at the NDDB by a man convicted of an unrelated aggravated assault. "It was very much a surprise," said Windsor Police Foreness Identification Specialist and DNA Coordinator Sergeant Steve Lamarche, referring to the new DNA match on the file.

The newly named suspect was spatied driving in the city and members of the Windsor Emergency Services. Unit wasted no time to arresting the individual. The 25-year-old man was subsequently charged with robbery with a weapen, possession of a weapen dangerous to public peace and theft of an automabile. His trial is pending, while the other two suspects involved in the robbery remain at large.

Interestingly, the man whose DNA was found following the robbery had been a suspect at the beginning of the investigation, Lamarche said. The jewelry store owner noticed a suspicious vehicle in the parking lat a week hetero the robbery and called pulies. Upon questiming, Lamarche said the man made up a story about why he was there and he was cleared of suspicion.

With police utilizing the NDDB during their investigations, it gives the community assurance that police agencies are using the best possible technology to solve crimes. Lamarche said. The community shows a lot mare confidence in the police," he said.

Appendix A - DEFINITIONS OF DESIGNATED OFFENCES

PRIMARY COMPULSORY OFFENCES

This category includes 16 offences for which the court is compelled to make an order such as murder, manslaughter, aggravated sexual assault and robbery. For a complete list of offences that fall under this category, refer to paragraph (a) under the definition of "primary designated offences" in section 487.04 of the Crimonal Code.

PRESUMPTIVE PRIMARY OFFENCES

For these offences, the court shall make an order unless the offender convinces the court that the impact of such an order on his/her privacy and security of the person is "grossly disproportionate" to the public interest in the protection of society and the proper administration of justice. Examples of offences included in this category are: sexual assault, breaking and entering a dwelling house and child pornography. For a complete list of offences that fall under this category, refer to paragraph (a.1) to (d) under the definition of "primary designated offence" in section 487.04 of the *Criminal Code*.

LISTED SECONDARY OFFENCES

For these offences, the court may, on application by prosecutor, make an order if it is satisfied that it is in the best interests of the administration of justice to do so. Examples of offences included in this category are: breaking and entering a place other than dwelling-house, assault and indecent acts. For a complete list of offences that fall under this category, refer to paragraphs (c), (d) and (e)(ii) under the definition of "secondary designated offence" in section 487.04 of the Griminal Code.

GENERIC SECONDARY OFFENCES

For these offences, the court may, on application by the prosecutor, make an order if it is satisfied that it is in the best interests of the administration of justice to do so. All the other non-listed *Criminal Code* offences including certain *Controlled Drug and Substance Act* offences that are prosecuted by indictment for which the maximum punishment is imprisonment for five years or more fall under this category of offences.

Examples of offences included in this category are: possession of explosive without lawful excuse, pointing a firearm, dangerous driving, dangerous driving causing bodily harm and causing death by criminal negligence, theft over \$5,000 and drug related offences (e.g. trafficking and possession for the purpose of trafficking, importing and exporting and production of substances) which fall under sections \$5.6 and 7 of the Controlled Drugs and Substances elect. For more information, teles to paragraphs (a), (b) and (e)(i) under the definition of "secondary designated offence" in section 187.04 of the Controlled Code.

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